

STATEMENT OF WORK

For

CONCRETE WATER STORAGE TANK REPAIR AND COATING

For

U.S. Embassy, Sofia, Bulgaria November, 2018

UNCLASSIFIED

TABLE OF CONTENTS

I.	SCOPE OF WORK	3		
Backg	round	3		
Objec	tive	3		
	t Description			
Projec	t Requirements	5		
II.	SCHEDULE OF SERVICES			
Projec	t Phase 1 – Project Kick-Off			
Projec	t Phase 2 – Water Storage Tank Repairs and Coating	7		
Projec	t Phase 3 – Project Close-out	9		
III.	GENERAL REQUIREMENTS	9		
Gener	General Requirements9			
Contra	Contractor Qualifications9			
Design	n Criteria & Guidelines	.10		
Photo	graphy	.11		
Submi	Submittal Requirements and Closeout Documentation			
IV.	PRODUCT REQUIREMENTS			
V.	EXECUTION REQUIREMENTS	.12		
Surfac	Surface Preparation1			
Applio	cation	.12		
Inspec	rtion	.12		
•	Protection			
VI.	DELIVERIES OR PERFORMANCE	.13		
Sched	Schedule			
VII.	PAYMENTS	.13		
VIII	ADMINISTRATION	.13		

I. SCOPE OF WORK

Background

The U.S. Embassy in Sofia, Bulgaria has a requirement for repair and coating of the entire interior of their concrete water storage tanks 1 & 2 and is seeking proposals from qualified firms with demonstrated expertise and success in this area as identified in this statement of work. Services to be provided include furnishing all labor, supervision, transportation, tools, equipment, materials, and supplies necessary to successfully perform specialized repair and interior coating services, in accordance with the specifications set forth in this Request for Proposals (RFP).

Objective

Provide professional services as required for the repair and coating of the entire interior of the potable water tanks 1 & 2 that includes all interior walls, floors and ceiling surfaces. A visual and physical inspection of the tanks 1 & 2 interiors were conducted in April 2016 by OBO and subsequently followed buy an additional inspection by a local contractor in March 2018 which corroborated past findings/deficiencies.

Project Description

The U.S. Embassy Compound is located at 16 Kozyak St., Sofia, Bulgaria. The compound uses water stored in two partially underground reinforced concrete water storage tanks. The two tanks share a common center wall and are each 91.76 square meters and 5.43 meters deep with a functional storage volume of 406.08 cubic meters. The overall condition of the tanks is good with no documented leaks. The tanks were constructed and placed in service in 2003 at the time of the construction of the NEC. The tanks are partially underground in a separate pump room generator building on compound. The tanks are accessed by to locked manway hatches. Entry into the tanks are via a fiberglass ladder without fall arrest protection. The tanks were initially waterproofed with a cementitious, spray applied waterproofing compound in 2003.

Penetrations into the tanks from the pump / water treatment room are all through the southern wall of the tanks and located at various elevations in accordance with their intended purposes. This southern side of the tanks is exposed to the atmosphere of the pump / water treatment room. The top and other four sides of the tanks are below grade. There is a dedicated electric circuit providing lighting Inside of the tanks via a single fixture at the top of the manway.

A visual and physical inspection of the tanks was conducted on April 18 and 19, 2016 by OBO. The tanks were emptied for the purpose of the visual inspection. The visual inspection was conducted by observing all interior tank components and the tank structure itself. The physical inspection was conducted using a metal probe and 500g rebound hammer. The entire surface of the tank was sounded with the hammer at 300 intervals. Per the tank inspection several areas of suspected delamination were further tested with the rebound hammer and metal probe to identify areas of possible spalling. Tank appurtenances were inspected for signs of deterioration, and for operational problems.

Penetrations were observed for signs of sealant and seal deterioration. Areas of possible deterioration were probed and anomalies noted. The April 2016 inspection report and its findings are enclosed in the appendix of this solicitation and for information purposes only.

A separate survey of the tanks was conducted in March 2018 by a local contractor with additional wall surface tests which confirmed previous observations and deficiencies/issues with the condition of these tanks. Refer to the inspection report provided in the appendix of this solicitation for the identified deficiencies that is also included as part of this SOW. The inspection report has identified several issues with the potable water storage tanks requiring repair of the interior concrete storage tanks and coating of the tanks. This repair project will ensure continued optimal performance of the facility tanks to meet the water supply needs of the Embassy.

The Contractor will perform all professional services required per the inspection reports of 2016 and 2018 for the recommended repair and coating services. Services to be provided include furnishing all labor, supervision, transportation, tools, equipment, materials, and supplies necessary to complete the specialized repair and interior coating services as identified in the inspection report and in accordance with the specifications set forth in this Statement of Work (SOW).

Existing Conditions

- 1. <u>Ladder anchor bolts corroded</u>- The ladder was installed using either low quality stainless steel or carbon steel anchors. These have corroded and should be replaced.
- 2. <u>Fire pump anti-vortex plate supports</u>- The supports under the anti-vortex plate have corroded and are no longer attached to the plate. They are generally in poor condition and should be replaced.
- 3. <u>Fire pump intake pipe</u>- The intake pipe for the fire pump is corroded, particularly where it attaches to the anti-vortex plate. The pipe should be cleaned, coated with a rust inhibitor and coated with an NSF 61 certified paint. After cleaning and before painting, bolts attaching the anti-vortex plate should be inspected. Bolts exhibiting excess material loss should be replaced. An improved arrangement would be to create a di-electric break between the plate and pipe using a rigid Teflon gasket and Teflon washers between the plate and pipe. Alternately, cathodic protection in the form of a zinc anode could be attached to the inlet pipe.
- 4. <u>Tank vent</u>- The tank vent pipe penetration in tank 1 did not appear to be properly sealed. This penetration should be sealed to prevent infiltration into the tank. Similarly, the vent riser seal has deteriorated and should be replaced on both tanks.
- 5. <u>Lighting / power-</u> The junction boxes, switches and lighting fixtures should be inspected. Corroded switches, convenience outlets and connections should be replaced. Lighting fixtures should be inspected and replaced if found to be in poor condition.
- 6. <u>Access hatches</u>- Access hatches are in good condition. Gaskets are intact, latching mechanisms operate freely, and lock hasps are sturdy. Flashing around hatches is in good condition. Sealant is intact and remains flexible.
- 7. Tank Structure—The tank structure was found to be in good overall condition. Several locations were found where concrete delamination around rebar were detected. In all of these areas, the concrete remained sound with no evidence of spalling observed. These areas are shown in the attached sketch. Evidence of past crack repairs were observed. These repairs consist of the application of additional brushed on cementitious sealer with and without woven fabric reinforcement. Evidence of delamination of the crack repairs were observed. Cementitious crack seal was applied along the entire joint between the wall and floor on the wall adjacent to the pump room. Evidence of seepage through this wall on the pump room side was observed. The concrete surface under the waterproofing appears to be a wood-lined-steel-form texture. The concrete pour was made for the entire height of the walls—there is no horizontal joint on the surface of the wall.

8. Waterproofing- Waterproofing on the tank walls is in poor condition. It is flaking and peeling off. In general, it appears that the waterproofing was not initially applied to the correct thickness, thereby limiting its effectiveness. Build up for this application should have been greater than 1.6mm, whereas the observed thickness was generally half that. Current manufactures suggested thickness is a minimum of 3 mm.. Additionally, the concrete was likely never properly cleaned before the waterproofing application.

- 9. <u>Water proofing on the tank fasteners</u> used to anchor some components such as ladder and anti-vortex for fire pump entrance are made of mild steel which were never coated and are now corroding.
- 10. <u>Leaking</u> At the time of the inspections, no significant/active leaks observed, but slight weeping around some penetrations was noted. The piping is through the walls is in good condition. There aren't any wholesale leaks around the penetrations.
- 11. <u>Cracks</u> Detailed photographs are provided in the solicitation attachments. No cracks appear to be from any structural problems related to the tank. The walls were sounded looking for spalling or delamination and none was identified. No separation was noted in any of the cracks. Cracks are believed to be shrinkage cracks from original curing.

Project Requirements

Tank Repair and Coating Requirements

The Contractor will provide all project management, supervision, confined space labor, general
labor, equipment, materials, supplies and miscellaneous items to provide a complete turnkey project
according to the Scope of Work and in accordance to manufacturer's recommendation for concrete
preparation and coating specification according to NSF approved mil thickness for potable water
tanks.

The repair summary required under this SOW includes the following but is not intended to be an exhaustive listing of the deficiencies. For full details of deficiencies and recommendations that must be addressed by this SOW please refer to the 2016 and 2018 inspection reports contained in the appendix of this solicitation.

- 1. <u>Repair access ladder mounts</u> remount access ladders with 12.5mm drop in anchors fabricated of noncorrosive material such as a minimum of 316-d Stainless steel, or other equally corrosion resistant material. Drop-in anchors shall have a minimum pullout strength of 250 kg and a shear strength of 500 kg. Anchors shall be installed in accordance with manufacturer's instructions.
 - a. In lieu of this repair the USG may choose to under separate contract install a ladder with fall protection at the time when the tanks are drained under this contract with no more than 1 day delay to the contractor's schedule.
- 2. <u>Fire pump intake pipe</u>-. The fire pump intake pipe shall be cleaned and de-scaled of all corrosion and coated with a corrosion inhibitor and coated with an NSF 61 certified paint.
- 3. <u>Fire pump anti-vortex plate bolts and supports</u> Replace anti-vortex plate bolts/supports which show an excess of material loss with new bolts/supports fabricated of a minimum of 316-D stainless steel or other equally corrosion resistant material. Create a di-electric break between the plate and pipe using a rigid Teflon gasket and Teflon washers between the plate and pipe.
- 4. <u>Pipe penetrations</u>- remove all external sealant applied to pipe penetrations inside tank. Clean, apply corrosion inhibitor and paint seal clamps and clamping hardware or replace as necessary. Reapply external sealant to cleaned opening.

5. <u>Install sealant to vent pipe penetration</u>- Install sealant to vent pipe penetration from interior and exterior of tank as well as to the vent riser seal.

- 6. <u>Lighting / power-</u> The junction boxes, switches and lighting fixtures shall be inspected by the USG at the time of drainage under this contract. Corroded switches, convenience outlets and connections shall be replaced by the USG. Lighting fixtures shall be inspected and replaced if found to be in poor condition.
- 7. <u>Tank water proofing</u> Remove and replace waterproofing in tank all six sides (floor and roof included). The following are necessary elements of this work:
 - a. <u>Product data and submittals</u>- Prior to the commencement of work develop a work plan that includes: product data (all applied products must be NSF 61 or equal certified), worker confined space certifications, product applicator training certification, schedule for work, safety plan to include confined space entry plan and personal protective equipment.
 - b. <u>Hydro-demolish existing coating estimated 596 Sq. Meters</u> use high pressure water (specific PSI required is unknown) to remove all traces of existing waterproofing compound and to roughen existing surface in preparation for application of new waterproofing system. Surface roughening shall be done to the extent / in accordance with manufacturer's instructions. It is anticipated that hydro-demolishing of the existing coating will be the best method for demolishing the existing coating, however contractors shall provide for the option of sand blasting in their work plan and as an option in their offers.
 - c. <u>Crack and joint sealing estimated 128 Meter total length</u> All cracks to be sealed by crystalline (Vandex Super and Vandex UNI Mortar 1 or equivalents) materials NSF 61 certified and according Manufacturer's instructions. Water proofing coating of the 128 Meter total length cracks and joints with Vandex Cemelast and Vandex Construction Joint Tape (or equivalents);
 - d. Crack sealing by epoxy injection ¬ No requirement for epoxy treatment for the cracks is anticipated, but contractors shall review the condition of the cracks in the provided photos/site visit and shall provide for the option of epoxy treatments in their work plan and as an option in their offers. Where observed cracks exceeding 0.8mm, inject NSF 61 certified epoxy grout sealer into cracks in accordance with the manufacturer's instructions.
 - e. Priming- In accordance with manufacturer's instructions, apply primer as required.
 - f. Crystalline (Vandex Cemelast or equivalent) 3-layers coating 596 SQ Meters with thickness of minimum 3 mm in total in accordance with manufacturer's instructions, apply coating system. Atmospheric and surface conditions stipulated by the manufacture for proper application shall be monitored. Records of temperature, humidity, and moisture content of substrate shall be monitored and records provided to USG and other conditions stipulated by manufacturer, (if any) shall be provided to government. All monitored parameters must be within manufacturer's limits for installation of their product. All tank fasteners (e.g. ladder and anti-vortex bolts) shall also be coated.
- 8. <u>Commissioning/Super chlorination of the tank</u> Contractor is responsible for super treating the tank and restoring potability including providing a potable water certification.

II. SCHEDULE OF SERVICES

The schedule of services includes the work required to fulfill the requirements of the contract. All deviation from the criteria contained herein must be approved in writing by the COR before proceeding. The contract has the following phases:

Project Phase 1-Project Kick-Off

Project Phase 2 - Water Storage Tank Repairs and Coating

Project Phase 3-Project Close-Out

Project Phase 1 – Project Kick-Off

Kick-Off Meeting

The representatives from the Contractor's team shall meet with Post and OBO/FAC team (via DVC or conference call) to discuss the project plans, scope and schedule. Travel is not reimbursable under this SOW.

Final Schedule and Access Roster

The contractor must prepare a proposed draft schedule for the repair, coating, disinfection and return back to service of the potable water tanks at the Embassy. This will be part of the kick-off meeting with necessary submittals such as schedule, equipment to be used and so on. The draft schedule will include the project team names, subcontracted companies and contact information. The contractor must provide detailed specifics and step by step process of addressing the repair and coating for this project.

The Contractor will also be required to provide specific information necessary to obtain the DoS clearances for each team member entering the Embassy compound; the information must be submitted to the COR in the following format:

Name: John Doe

Title/Company: Project Manager – XYZ Inc.

Tel # / e-mail (123) 456-7890 JohnDoe@XYZ.com POB: Any town, State, USA (or country)

Type of ID Local Government issued

ID # 1234567890 Expires: Jan 01, 1000

Project Phase 2 – Water Storage Tank Repairs and Coating

The tank repairs and coating per the deficiencies identified in the 2016 and 2018 inspection reports will not begin until all submittals in Phase 1 have been accepted by the COR and the COR directs the contractor to proceed.

The Contractor will provide all project management, supervision, confined space labor, general labor, equipment, materials, supplies and miscellaneous items to provide a complete turnkey project according to this Scope of Work and in accordance with manufacturer's recommendation for concrete preparation and coating specification according to NSF approved mil thickness. Complete disinfection of the two (2) concrete tanks will be completed by the contractor according to ANSI/AWWA C652/11 and ALDAC 137985 standards prior to returning the tanks to service. Instruction, training and support documentation of the tank coating protection and maintenance system will be provided to the facilities maintenance staff as recommended to protect the coatings.

The Contractor shall be responsible for all required materials, equipment and personnel to manage, administer, and supervise the project. All workmanship shall be in compliance with manufacturer recommendations and warrantied no less than that of that specified by the manufacturer. Any deviation from that of the manufacturer recommendation will be notified by the contractor to the COR with a 1-week response time for evaluation.

The two water tanks can supply water to the Embassy independently. Accordingly, one tank shall be emptied at a time while the other can be used to supply water to the Embassy. A phased work approach will be used by the contractor so that only outages of less than 30 minutes occur. The contractor shall empty one tank, completing the re-lining, commission the newly lined tank, and then proceeding with the second tank.

Pre-Installation Conference

- The contractor and all subcontractors (including, if applicable, an installation sub-contractor and a
 high performance concrete coating system manufacturer's representative) shall discuss (via DVC or
 conference call) with the COR and OBO/FAC representative for a pre-installation conference.
 Particular emphasis shall be placed on these specifications, safety, weather conditions, surface
 preparation and, material applications with necessary cure times.
- The contractor shall submit to the COR and OBO/FAC/CFSM/PS representative any revisions or changes agreed upon, reasons thereof, and parties agreeing or disagreeing with them.

Additional Requirements

- No security clearances are required for this work. Escorted visitor access will be provided to contractors while on site. Non-Bulgarian contractors will be required to submit an eCountry Clearance.
- All materials and equipment incorporated into the project shall be new unless noted otherwise. The Contractor shall be responsible for transport and safeguard all materials and equipment required for construction.
- Equipment and materials shall be carefully handled, properly stored, and adequately protected to prevent damage before and during installation, in accordance with the manufacturer's recommendations. Damaged or defective items shall be replaced at no cost to the owner. The contractor will be responsible for all materials and equipment.
- Receipt Of Materials Shipment of equipment, materials, and supplies shall be addressed to Post. The contractor will be responsible to discuss and arrange with Post receivable of the shipment and temporary storage location. Post may assist with shipment and storage of equipment and materials to include possible duty-free shipping if approved by the COR.
- Contractor will deliver products to the job site in manufacturer's original, unopened containers bearing manufacturer's name and label and with all required SDS data sheets and with the following information:
 - 1. Product name
 - 2. Product description (generic product classification)
 - 3. Manufacturer's lot number
 - 4. Color (when applicable)
- Contractor will ensure timely shipment and delivery so products will be available at the project site when required for installation so not to delay job progress.
- The Contractor will be provided with a storage and staging area as determined by the COR or COR
 representative at Post. The Contractor shall be responsible for maintaining this area with no
 uncontrolled trash or dumping.

• The Embassy will provide all water and power necessary to complete the scope. Water is available from the tank not actively being relined. There are two hose bibs with potable water within 50 meters of the tank openings. Power is 380/220 Volts, 3Ph/1Ph. The Embassy will not supply compressed air.

- The Contractor shall at all times keep the work area free from accumulation of waste materials. Upon completing of the project, the Contractor shall be responsible for removal of all equipment and debris generated from the project.
- The Contractor shall perform the work at the site during the Embassy's normal workday hours, unless alternate work hours are agreed upon by the COR.
- At the end of each work day, or notification of a temporary stop order, the Contractor shall lower
 and fix all temporary work platforms and/or harnesses. Contractor shall notify the COR of the
 temporary barricade locations. Beginning the next workday, the contractor shall remove the
 temporary barricades before continuing the project.
- The Contractor shall have limited access to or will not be admitted into any structure outside the areas designated for the project except with permission by the Embassy.
- Storm Protection Should warnings of wind of gale force or stronger be issued, the Contractor shall take every practicable precaution to minimize danger to person and the work area. Precautions shall include, but not be limited to, closing all openings, removing all loose materials, tools and equipment from exposed locations.
- Cleanup The Contractor shall keep the work area, including storage areas, free from accumulations of waste materials on a daily basis and comply with all federal, state, and local regulations pertaining to the storage, transport, and disposal of wastes. The Contractor shall not use Embassy waste disposal facilities including garbage cans, trash piles, or dumpsters.

Project Phase3– Project Close-out

The Contractor shall prepare a final summary report and provide this report to the COR and OBO/CFSM/FAC 45 days after successful project completion. Contents of this report shall include at a minimum 1) a summary of the repair and coating work completed including photographs documenting installation and any reports from the manufacturers representative's field visits identifying the products used, the surface preparation method employed, and the product application sequence 2) a copy of any maintenance and operating information, 3) the Contractor's workmanship guarantee, and 4) product literature of all items installed.

III. GENERAL REQUIREMENTS

General Requirements

The Contractor shall provide necessary personnel, tools, materials and supervision as needed to successfully complete the project and in accordance with this Statement of Work [SOW]. It is expected that the Contractor shall collaborate closely with Embassy personnel and OBO/CFSM/FAC representatives.

The contractor will be required to staff the project with competent and qualified personnel. The general contractor will be required to submit a list of all subcontractors, if needed, which will be used on the project proposal.

Contractor Qualifications

The Contractor qualifications shall include:

1. Installation must be performed by a business contractor with skilled mechanics having not less than three years satisfactory experience in potable concrete water tank repair, and coating. The contractor shall be an approved coating applicator by the manufacturer of the recommended coating product, having successfully completed a General Materials and Products Course (or equivalent as approved by the COR) and be a contractor with no reported in-country government issued violations within the last 10 years related to health and safety.

- 2. All of the contractor's job site personnel must be trained in the hazards associated with confined space entry. All personnel entering a manhole must be certified for confined space entry.
- 3. The Contractor shall provide the services of a qualified manufacturer's representative who shall provide information and suggestions on the proper use and application of the products or systems and the surface preparation requirements.
- 4. Names of members of firm that hold appropriate trade licenses, with license numbers/certificates.
- 5. Contractor shall have a Certified Coating Inspector on staff: Society for Protective Coatings (SSPC) Certified Concrete Coating Inspector and/or National Association of Corrosion Engineers (NACE) -- Level III Certified Coating Inspector or appropriate equivalent qualifications.
- 6. Affidavit stating whether or not any in-country government issued violations has occurred within past 10 years related to health and safety.
- 7. Safety program and signed documentation of training by employees in areas that are known safety hazards within the scope of this project.
- 8. Proficiency in English of project supervisor.

Design Criteria & Guidelines

The Contractor must develop the recommended project approach in accordance with the standards and guidelines outlined below. Post COR to provide contractor with necessary standards that are not readily accessible via the internet.

- International Building Code (IBC) including OBO Supplements (OBO IBC ICS) latest edition available from COR.
- DOS, Bureau of Diplomatic Security, Classification Guide for Design and Construction Projects Overseas, latest editions available from COR.
- The Contractor must coordinate their activities with the local building authorities and employ all local standards and codes that apply to this project as necessary.
- Any code issues arising from the review of codes and standards must be brought to the attention of OBO as soon as possible.

Without limiting the generality of other requirements of these specifications, all work hereunder shall conform to the applicable requirements of the referenced portions of the following documents, to the extent that the requirements therein are not in conflict with the provisions of this SOW. All references and standards listed shall be the latest revisions. Joint and individual documents are referenced.

A. SSPC – The Society for Protective Coatings 40 24th Street, 6th Floor Pittsburgh, PA 15222-4643 (412) 281-2331

B. NACE – National Association of Corrosion Engineers
 P.O. Box 218340
 Houston, TX 77218-8340
 (281) 492-0535

- 1. SSPC-SP 12/NACE No.5, High Pressure Water Cleaning (HP WC) WJ-2
- C. ASTM American Society for Testing and Materials 100 Barr Harbor Drive West Conshohocken, PA 19428-2959 (610) 832-9585
 - 1. ASTM E-337: Test Method for Measuring Humidity with a Psychrometric
 - 2. ASTM D 4414 "Standard Practice for Measurement of Wet Film Thickness by Notch Gages"
 - 3. ASTM Committee D01.23: Test Method for Nondestructive Measurement of Dry Film Thickness of Applied Organic Coatings Using an Ultrasonic Gauge

Photography

Photos to be submitted with the Final Summary Report shall be identified and keyed on the site plans as required to clearly indicate the location. Digital format (jpeg) is required with minimum resolution of 5 mega pixels. All photography at post must be cleared by the COR prior to collecting the image and before removing the images from Post.

Submittal Requirements and Closeout Documentation

Pre – Award - at time of quote submission for technical evaluation in addition to RFP submittal requirements:

- 1. Draft Schedule
- 2. Draft Safety Plan
- 3. Health and safety violations affidavit
- 4. Draft Personnel and Equipment Plan
 - a. Include evidence of certified manufacturer's representative and/or inspector.
- <u>5.</u> Waterproofing and other material specifications include notation of NSF certification. Submit product data for each component specified including data substantiating that the proposed materials comply with specified requirements and recommendations by the manufacturer covering all materials.

Post - Award

- 6. Final Schedule
- 7. Safety Plan which will constitute the contractor's Activity Hazard Analysis (AHA) noting required confined space entry provisions including ventilation, air monitoring, and personal protective equipment (respirators), safety personnel on site and evacuation procedures. (See confined space entry requirements attachment and Army Corps of Engineers publication EM3851-1 which can be found at the hyperlink.)
- 8. Access Roster

At project completion

9. Final Summary Report

Electronic Copy: Submittals may be provided in electronic format to the COR.

IV. PRODUCT REQUIREMENTS

The tank coating product shall be NSF 61 Certified for potable use high performance concrete coating system designed for the interior of concrete water tanks, with a minimum service life of 25 years or COR approved equivalent. Products recommended by the selected contractor must be approved by the COR prior to installation.

V. EXECUTION REQUIREMENTS

Surface Preparation

- A. All areas of unsound concrete or cracks identified in the inspection reports shall be repaired by the contractor prior to coating, and according to all specifications for products used.
- B. The entire interior water tank 1 & 2 that includes all interior walls, floors and ceiling surfaces to be coated shall be prepared in accordance with the specifications for the approved coating product.

Application

- A. Coating products shall only be applied upon all successful repair and correction of all deficiencies of the potable concrete water tanks highlighted and identified in the inspection reports and with full compliance with the specified standards.
- B. Contractor shall comply with manufacturers written installation procedures and individual product data sheet application bulletins.
- C. Contractor shall apply materials in accordance with the specifications for the approved product.

Inspection

- A. The contractor will provide a detailed inspection and photographs of the finished surfaces/area upon the completion of repair and coating.
- B. At a minimum, the requirements of the repair and coating application are to be free of the following:
 - 1. Uncured material
 - 2. Inadequate thickness
 - 3. Pinholes
 - 4. Blisters
 - 5. Delamination
 - 6. Foreign matter
 - 7. Unspecified materials

Protection

It is the contractor's responsibility to ensure that the high performance concrete coating systems shall be protected from damage or detrimental elements during cure and until the time of final acceptance by the COR.

VI. DELIVERIES OR PERFORMANCE

Schedule

The Contractor shall commence work under this contract promptly, execute the work diligently, and achieve final completion and acceptance including final cleanup of the premises and return of the water storage tanks to service within the period specified.

Milestone	Timeframe
Award of Contract & Notice to Proceed	TBD
Pre-Repair and Coating Submittals	14 days after award of contract
Embassy and OBO/FAC Submittal Review	14 days
Contractor response to Embassy and OBO/FAC	14 days after receipt of Embassy and OBO/FAC
comments on Submittal	comments
Embassy and OBO/FAC approval of submittals	14 days after contractor response, with Resolution
	meeting on last day (Teleconference)
Shipment of equipment and materials	14 days after Submittal Approval (if required)
On-Site Repairs and Coating Begin	14 days after equipment and materials arrives at Post
	or approval of submittals if no shipping is required.
Project Closeout	45 days after repairs and coating completed

Project Phase 1 – Project Kick-Off

Project Phase 2 – Water Storage Tank Repair and Coating

Project Phase 3 – Project Close-Out

VII. PAYMENTS

The Contractor shall submit one copy of all payment invoices, with the appropriate backup documents to the COR. The COR will evaluate the technical aspects of the project, acceptability of the completed work and if the invoice is complete and proper as submitted. The COR also will determine if billed services have been satisfactorily performed and if expenses billed are correct. If it is determined that the amount billed is incorrect, the COR will within seven days, request the Contractor to submit a revised invoice.

The Contractor shall specifically identify his last invoice "Final Invoice". The Final invoice shall include the remaining payment claimed to be due under the basic contract and all modifications issued, if any. The final invoice shall also have the Contractor's Release of Claims Certificate attached.

VIII. ADMINISTRATION

The Contractor shall maintain all contact with the US Government through the Contracting Officer's Representative (COR) and OBO/FAC Manager:

COR

Apostol Vassilev Maintenance Supervisor 16 Kozyak St. Sofia Bulgaria Tel: +359 88-891-9989

Email: VassilevAL@state.gov

OBO/FAC

Stephen Siebert
U.S. Department of State
OBO/CFSM/FAC/PS, SA-6B

Washington, DC 20522-0611

Tel:703-875-5058 Fax: 703-875-4504

Email: siebertsw@state.gov

Water Storage Tank Drawings and Specifications (attach) U.S. Embassy Sofia, Bulgaria

Water Storage Tank Inspection (attach)
U.S. Embassy Sofia, Bulgaria